

1. Description

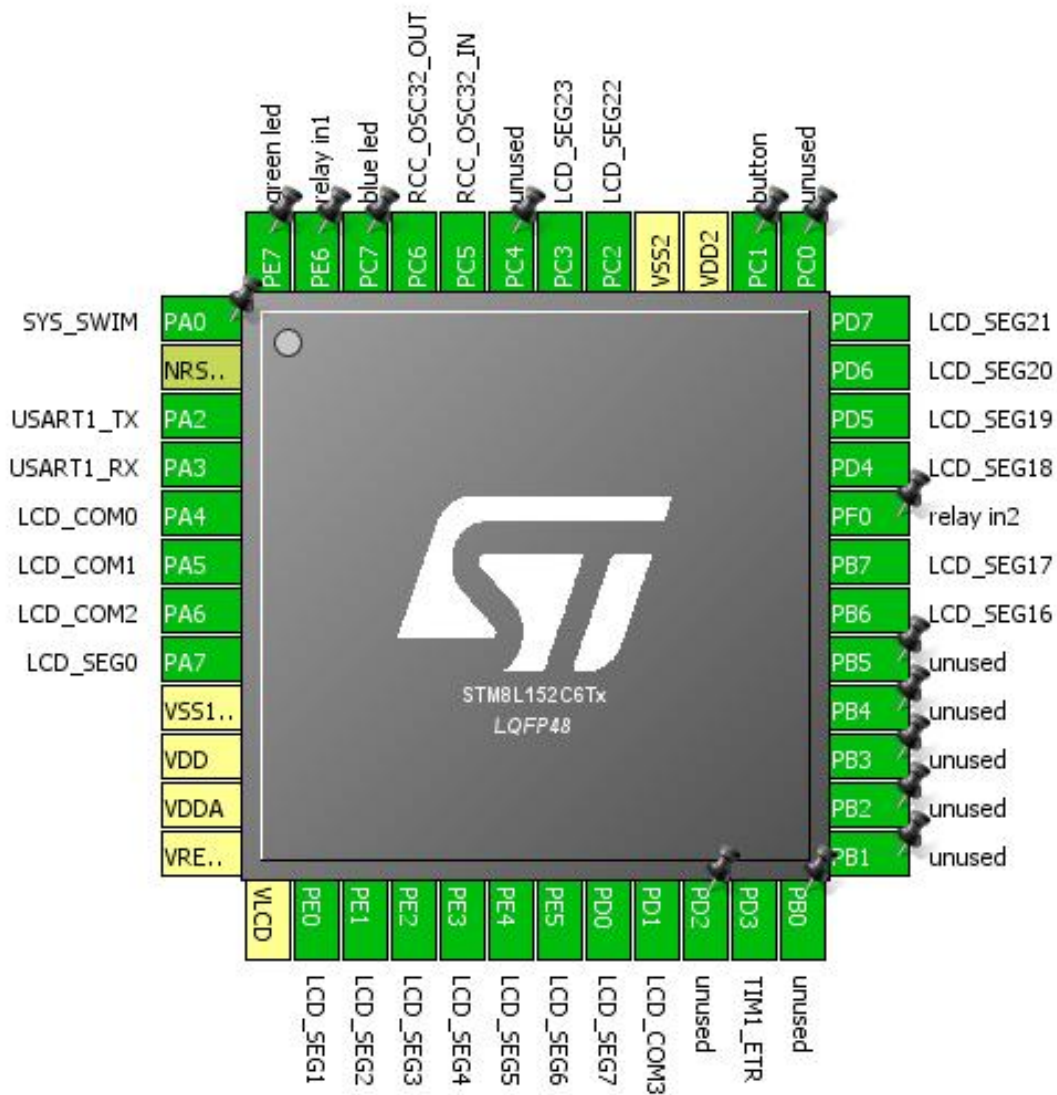
1.1. Project

Project Name	konfig
Board Name	No information
Generated with:	STM8CubeMX 1.5.0
Date	02/05/2022

1.2. MCU

MCU Series	STM8L
MCU Line	STM8L151/152
MCU name	STM8L152C6Tx
MCU Package	LQFP48
MCU Pin number	48

2. Pinout Configuration



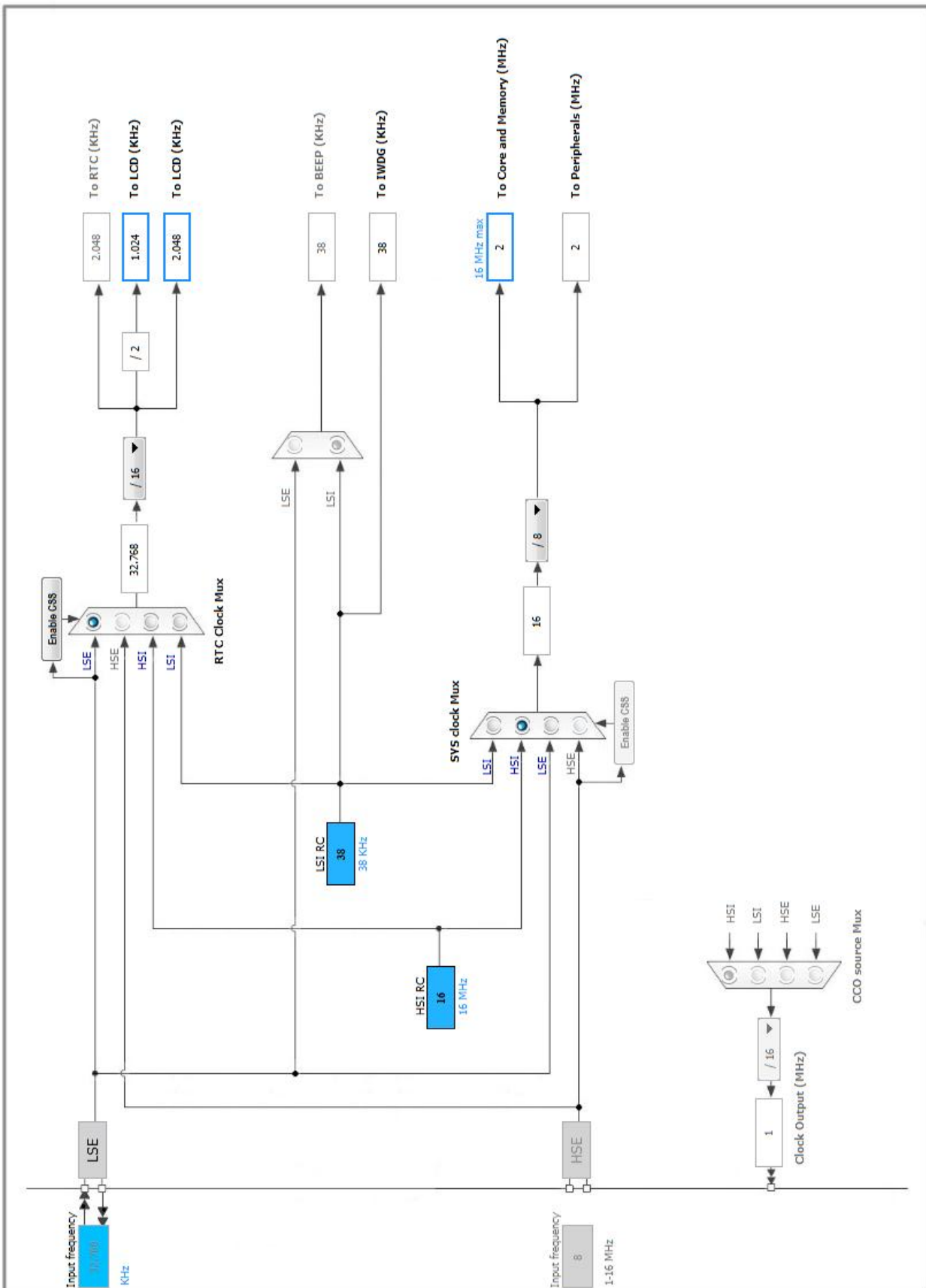
3. Pins Configuration

Pin Number LQFP48	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	PA0	I/O	SYS_SWIM	
2	NRST/PA1	Reset		
3	PA2	I/O	USART1_TX	
4	PA3	I/O	USART1_RX	
5	PA4	I/O	LCD_COM0	
6	PA5	I/O	LCD_COM1	
7	PA6	I/O	LCD_COM2	
8	PA7	I/O	LCD_SEG0	
9	VSS1/VSSA/VREF-	Power		
10	VDD	Power		
11	VDDA	Power		
12	VREF+	Power		
13	VLCD	Power		
14	PE0	I/O	LCD_SEG1	
15	PE1	I/O	LCD_SEG2	
16	PE2	I/O	LCD_SEG3	
17	PE3	I/O	LCD_SEG4	
18	PE4	I/O	LCD_SEG5	
19	PE5	I/O	LCD_SEG6	
20	PD0	I/O	LCD_SEG7	
21	PD1	I/O	LCD_COM3	
22	PD2 *	I/O	GPIO_Output	unused
23	PD3	I/O	TIM1_ETR	
24	PB0 *	I/O	GPIO_Output	unused
25	PB1 *	I/O	GPIO_Output	unused
26	PB2 *	I/O	GPIO_Output	unused
27	PB3 *	I/O	GPIO_Output	unused
28	PB4 *	I/O	GPIO_Output	unused
29	PB5 *	I/O	GPIO_Output	unused
30	PB6	I/O	LCD_SEG16	
31	PB7	I/O	LCD_SEG17	
32	PF0 *	I/O	GPIO_Output	relay in2
33	PD4	I/O	LCD_SEG18	
34	PD5	I/O	LCD_SEG19	
35	PD6	I/O	LCD_SEG20	
36	PD7	I/O	LCD_SEG21	

Pin Number LQFP48	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
37	PC0 *	I/O	GPIO_Output	unused
38	PC1 *	I/O	GPIO_Input	button
39	VDD2	Power		
40	VSS2	Power		
41	PC2	I/O	LCD_SEG22	
42	PC3	I/O	LCD_SEG23	
43	PC4 *	I/O	GPIO_Output	unused
44	PC5	I/O	RCC_OSC32_IN	
45	PC6	I/O	RCC_OSC32_OUT	
46	PC7 *	I/O	GPIO_Output	blue led
47	PE6 *	I/O	GPIO_Output	relay in1
48	PE7 *	I/O	GPIO_Output	green led

* The pin is affected with an I/O function

4. Clock Tree Configuration



5. Power Consumption Calculator report

5.1. Microcontroller Selection

Series	STM8L
Line	STM8L151/152
MCU	STM8L152C6Tx
Datasheet	15962_Rev14

5.2. Parameter Selection

Temperature	25
Vdd	3.0

5.3. Battery Selection

Battery	Li-MnO ₂ (CR2032)
Capacity	225.0 mAh
Self Discharge	0.12 %/month
Nominal Voltage	3.0 V
Max Cont Current	3.0 mA
Max Pulse Current	15.0 mA
Cells in series	1
Cells in parallel	1